

Curriculum Vitae for H. Richard Heede

January 2014

Professional History

Climate consultant

February 2003–: **Principal**, Climate Mitigation Services, a consultancy focused on climate stewardship from inventories to solutions. CMS conducts comprehensive emissions inventories and identifies technologies & strategies to reduce emissions. Client sectors: municipalities, colleges & universities, corporations, state, local, and Federal agencies, international NGOs, and advocacy groups. CMS is adept with inventory protocols covering corporations, municipalities, oil and gas production, supply chains, aviation and air travel, shipping & rail & trucking, industrial facilities, and global GHG emissions. CMS has completed projects on LNG supply chain emissions, provided testimony before state commissions and the U.S. Congress, seawater desalination plants and integrated steel mills, and updated emission factors for government agencies. CMS gets into the details of GHG metrics and works on scales from grams to gigatonnes.



September 2011-: **Co-founder, Director, & Chief Geographer**, Climate Accountability Institute, an educational and research organization organized to foster climate stewardship by communicating the risks of continued emissions of greenhouse gases to carbon extracting companies, shareholders and management, investors and fund managers, governments, and the public. Project with Union of Concerned Scientists and University of Oxford to model the climate response to emissions traced to carbon majors; quantify the proven recoverable reserves held by investor- & state-owned fossil fuel companies; other Carbon Majors work.

May 2005-: **Principal Investigator**, *Tracing carbon and methane emissions to fossil fuel and cement producers, 1854-2010*. Final report to Climate Justice Programme & Greenpeace International is in preparation, summary paper accepted by the peer-reviewed journal *Climatic Change*, with public release expected in November 2013. Work and copyrights are held by CMS.

July 2010-October 2011: **Sr. Advisor**, E Source LLC (esource.com) and its EPA Climate Leaders practice. Assure that corporate inventories and Inventory Management Plans meet EPA protocols. CMS also conducts inventories and verifications for other corporate clients using WRI's *GHG Protocol*, ISO, API, IPIECA, TCR, and GRI (see CMS, above).

May 2011-May 2012: **Climate Specialist**, EcoMotion, Inc. (ecomotion.us), Irvine, CA. Complete the municipal inventories and contribute to climate action plans for the Southern California Edison-funded and Coachella Valley Association of Govts-managed project for energy and GHG emission reductions in six CVAG cities and the Agua Caliente Band.

June 2011-March 2012: **Sr. Advisor**, Renewable Choice Energy (renewablechoice.com), Boulder, CO, on GHG emission protocols and client projects.

October 2002–: research cryospheric dynamics, paleoclimatology, risk management and cultural change for a semi-fictional environmental thriller.

1984–2002: Rocky Mountain Institute.

January-July 2002: Researched, wrote, designed, and published *Cool Citizens: Everyday Solutions to Climate Change: Household Solutions Brief*, its methodological background report: *Residential carbon dioxide emissions profile and calculations of climate mitigation measures*, and *Household Climate Neutral Strategy: Emissions Reduction Measures*.

2000-2001: Manager, Oberlin College: Climate Neutral by 2020. Principal investigator and co-author of final report & appendices, conducted a comprehensive GHG emissions inventory for year 2000, led building audits, identified profitable measures to reduce emissions, and developed (with Dr. Joel Swisher) cost-effective scenarios for climate neutrality by the year 2020, and coordinated the publication of *Oberlin College: Climate Neutral by 2020* reports.

1999–2000: Climate Services Manager for RMI's Natural Capitalism Practice. Attended COP-5 climate negotiations in Bonn. Delivered an invited paper on energy-saving building design and retrofit at an Electricité de France-sponsored conference in Paris. Researched individual opportunities to cool global warming, a subject of numerous radio interviews and featured at rmi.org. Team Leader of the joint RMI/Oberlin College *Climate Neutral by 2020* project.

1994–1999: Research Scholar. “Energy oracle” to the World Business Council on Sustainable Development Scenario Unit workshop, Oslo, 1998 (which led to WBCSD's *Energy 2050*, Apr99). Authored *Homemade Money: How to Save Energy and Dollars in Your Home*, a homeowners' guide to cost-effective energy-saving measures in new and existing homes. Funded and edited RMI's *Home Energy Brief* series (Lighting, Water Heating, Refrigerators & Freezers, Washing Machines & Other Appliances, Windows, Home Office Equipment, and Home Cooling). Edited the electronic edition of *The Energy Directory Kit*. Assessed the environmental impacts of a major resort on Maui, Hawai'i. Wrote testimony recommending to the Hawaii Land Use Commission and Maui Planning Commission denial of the land use zoning change request for a proposed 232 MW oil-fired power plant.

1992–1994: Energy Program Director and Energy Outreach Coordinator. Co-authored (with Linda Baynham) a small book entitled *The Energy Directory: A Guide to Energy-Efficient Products and Services in the Roaring Fork Valley*. Invited participant, Fondation de la Progres de l'Homme's *State of the World Conference*, Montreal, March 1993, and Paris, Sep. 1993.

1991–1992: Energy Program Acting Director and Energy Outreach Coordinator. Responsible for managing a staff of three researchers (plus two support staff), three foundation grants, seven research projects, and a \$320,000 budget. Wrote proposals that brought in \$560,000.

1989–1991: Senior Research Associate with RMI's Competitek Group. Co-authored (with Amory Lovins) a path-breaking report on electricity-saving office equipment (computers, components, printers, copiers, communications, & imaging equipment).

1987–1989: Research Associate with the Global Security Program. Researched U.S. security concerns regarding strategic materials imports: oil, manganese, cobalt, and platinum group metals. The Security team proposed policy initiatives — oil efficiency, cobalt recycling, improved design and processing, platinum recovery, and government stockpile changes — to reduce U.S. vulnerability to supply interruptions. Attended ISODARCO in Venice, 1987, and the Greek North-South Dev. Forum, Athens, 1988.

1984–1987: Research Associate with the Energy Program. Comprehensive and oft-quoted study of Federal subsidies to the U.S. energy sector; invited Congressional testimony before House and Senate Subcommittees, *Wall Street Journal* op-ed (with Amory Lovins). Heede also advised Douglas Koplou during Mr. Koplou's research for an update of energy subsidies for fiscal year 1989. See www.earthtrack.net for Mr. Koplou's work.

1982-1983: National Center for Atmospheric Research.

Cooperative fellowship with NCAR and the University of Colorado Dept. of Geography to map global recoverable fossil fuels. Principal findings: a) no resource limits on fossil carbon exist given foreseeable economic conditions and the rapid progress of exploration and extraction technology (concluded that 4,000 GtC is economically recoverable); b) severe and costly climatic changes are highly likely; and c) the least costly way to reduce the carbon intensity of the world's economies is to vigorously pursue the diffusion of energy-efficient equipment and techniques. Advisors: Drs. Will Kellogg, Roger Barry, and Ken Erickson. Additional advisor: Gilbert White.

1981-1983: University of Colorado.

Student reference librarian at the University of Colorado's Geology, Physics & Mathematics, Engineering, and Norlin Reference Libraries.

1979-1984: Omega Research.

Founded this independent company to conduct research and writing for corporations, non-profit organizations, and individual clients. Research expertise in natural resources, mining and minerals, economics, climate, energy, and land use.

Education

1980-1983: University of Colorado (MA).

Masters of Geography. Published a Cooperative thesis with the National Center for Atmospheric Research: *A World Geography of Recoverable Carbon Resources in the Context of Possible Climatic Change*; 140 pp, 5 maps. Coursework emphasized environmental economics, energy resources, resource policy, and climate change. GPA: 4.0.

1971-1976: University of Colorado (BA, BA).

Multi-disciplinary course of study in civil and environmental engineering, physics, mathematics, economics, geology, geography, social psychology, political science, and philosophy, with emphasis on energy futures and global environmental issues, and particular focus on energy efficiency, resources, and climate change.

BAs in Environmental Studies, and in Philosophy. Minor in Economics. GPA: 3.2.

Personal

Born in Oslo, Norway, 7 March 1952. Emigrated to the U.S. in June 1967 (NAL *Oslofjord*).

Married 1989-1996. Daughter: Shana Breeze Heede, born 17 June 1990.

Designed and built a super-efficient passive solar rammed earth home in Snowmass, CO, 1992, 39.28 N, 107.00 W, elev. 2300 m: 10.7 kWh/m²-yr, 4.8 kgC/m²-yr (heat + electricity).

Other activities

Scientific and Technical Advisor to Helio International, Paris, www.helio-international.org

Aspen Global Warming Alliance, founding member (2004), City of Aspen's Canary Initiative, www.aspenglobalwarming.com

Publications

- Heede, Richard, & Naomi Oreskes** (forthcoming) Who is responsible for climate change? in preparation.
- Heede, Richard** (2014) Tracing anthropogenic CO₂ and methane emissions to fossil fuel and cement producers 1854-2010, *Climatic Change*, vol. 122(1): 229-241, online 21Nov; doi:10.1007/s10584-013-0986-y.
- Heede, Richard** (2013) *Carbon Majors: Accounting for carbon and methane emissions 1854-2010 Methods & Results Report*, commissioned by Climate Justice Programme (Sydney) & Greenpeace International (Amsterdam), Climate Mitigation Services, Snowmass, CO, 104 pp. plus pdf worksheets, 674 pp.
- Union of Concerned Scientists & Climate Accountability Institute** (2012) *Establishing Accountability for Climate Change Damages: Lessons from Tobacco Control*, Summary of the Workshop on Climate Accountability, Public Opinion, and Legal Strategies, Scripps Institution of Oceanography, La Jolla, 14-15 June, UCS & CAI, 36 pp.
- Heede, Richard** (2011) *Coachella Valley Energy and Emissions Inventory for 2010*, commissioned by EcoMotion Inc., Irvine, CA.
- Heede, Richard** (2011) *Grand Valley Energy and Emissions Inventory for 2010*, Climate Mitigation Svcs, Snowmass, CO.
- Heede, Richard** (2010) *Community-wide Inventory for Town of Snowmass Village, Colorado, 2009*, Climate Mitigation Services, Snowmass, Colorado.
- Heede, Richard** (2010) *Energy and emissions inventory of Garfield County, Colorado, 2009*, commissioned by Clean Energy Economy for the Region (CLEER), Carbondale, Colorado.
- Heede, Richard** (2010) *Third-Party Verification of Xanterra Parks & Resorts' Emission Inventories 2000-2009*, for Xanterra Parks & Resorts, xanterra.com.
- Heede, Richard** (2009) *Jackson Hole Inventory of Greenhouse Gas Emissions in 2008*, commissioned by Community Foundation of Jackson Hole, Wyoming.
- Heede, Richard** (2009) *Verification of Voss Water of Norway LCA emission worksheets*, memorandum to E SOURCE (Boulder) and 3Degrees (San Francisco).
- Darby, Marta, Richard Heede, & Kim Peterson** (2009) *Aspen Greenhouse Gas Emissions Inventory, 2007: An update to the 2004 baseline*, for the City of Aspen's Canary Initiative, commissioned by the City of Aspen, Climate Mitigation Services, 64 pp, 14 worksheets, www.climatemitigation.com.
- Heede, Richard** (2009) *Aspen QuickTracker: Early detection of major drivers of greenhouse gas emissions*, A Manual for the City of Aspen's Canary Initiative, commissioned by the Canary Initiative, 16 pp.
- Heede, Richard** (2008) *Carbon in Our Daily Lives: a wallet-sized carbon literacy card*, commissioned by Sopris Foundation, Aspen, Colorado, www.soprisfoundation.org
- Heede, Richard** (2008) *Carbon in Our Daily Lives: background calculations*, commissioned by Sopris Foundation, Aspen, Colorado, 24-page worksheet with extensive cell notes.
- Heede, Richard** (2008) *Technical Review of Federal Express Corporation's Package CO₂ Emission Estimation Protocol*, commissioned by Climate Neutral Business Network, Lake Oswego, OR.
- Heede, Richard** (2008) *Milton Hershey School, Hershey, Pennsylvania: Inventory of Greenhouse Gas Emissions, 2006/2007*, commissioned by Milton Hershey School, 136 pp., www.mhs-pa.org
- Heede, Richard, & Neil Kolwey** (2008) *Comparing Life-Cycle Emissions for Hasbro's Existing Manufacturing Facility in East Longmeadow, Massachusetts to Emissions if Manufacturing is Shifted to Shenzhen, China, and transported by container ship and rail and truck to Chicago Illinois*, commissioned by E SOURCE, Boulder, Colorado.
- Heede, Richard** (2008) *Emissions Calculator for Private & Business Aircraft Flying into Aspen's Sardy Field*, commissioned by State of Colorado (Governor's Office of Energy Conservation and Management) and City of Aspen's Canary Initiative; www.aspenzgreen.com/offsets_calculator_air.cfm
- Heede, Richard** (2008) *Carbon in Our Daily Lives: an exploration of everyday climate impacts*, commissioned by Sopris Foundation, Aspen, Colorado, 8 pp (fully footnoted), and 2 pp (brochure only).
- Heede, Richard** (2008) *Carlsbad Seawater Desalination Project: A technical review of Poseidon Resources' Energy Minimization and Greenhouse Gas Reduction Plan*, presented to the California Coastal Commission hearing 6Aug08 by Bruce Reznik, San Diego Coastkeeper, 12 pp. plus 5 worksheets.
- Heede, Richard** (2008) *Town of Frisco Inventory of Greenhouse Gas Emissions in 2006*, commissioned by Town of Frisco, Colorado, 106 pp, plus fourteen worksheets.
- Heede, Richard** (2008) *Venoco Paredon Oil & Gas Project, Carpinteria, California: Greenhouse Gas Emissions*, commissioned by Environmental Defense Center Santa Barbara, 14 pp. plus two worksheets.
- Heede, Richard** (2008) *La Plata Oil & Gas Industry Greenhouse Gas Emissions Estimate, 2006*, commissioned by The Brendle Group in support of a comprehensive emissions inventory for La Plata County, Colorado, 14 pp.
- Heede, Richard** (2007) *Emissions Calculator for Commercial Air Travel*, commissioned by State of Colorado (Governor's Office of Energy Conservation & Management) and City of Aspen's Canary Initiative.

- Heede, Richard** (2007) *Anybody Home? Energy Consumption & Carbon Emissions of Second Homes in Aspen*, Aspen Second Homes Energy Study (ASHES), commissioned by Sopris Foundation, Aspen, 30 pp.
- Heede, Richard** (2007) *Greenhouse Gas Emissions Inventory: Minnesota Steel Industries' Proposed Integrated Iron Mine, DRI, Pelletizer, and 2.5 Mt/yr Steel Mill*, commissioned by Minnesota Center for Environmental Advocacy, St. Paul, MN, 11 pp, plus worksheets.
- Heede, Richard** (2007) *Cabrillo Deepwater LNG: Testimony to the California State Lands Commission*, written and oral testimony, Oxnard, 9 April, commissioned by the California Coastal Protection Network and Environmental Defense Center (Santa Barbara), 10 pp.
- Heede, Richard** (2007) *From the Dairy Farm to the Consumer: Organic vs Conventional Milk: Comparing Supply Chain Emissions*, commissioned by Sustainable Settings, Carbondale.
- Heede, Richard** (2007) *Aspen's ZGreen Initiative: Forty GHG emissions reduction measures for Aspen residents, citizens, and visitors*, commissioned by Aspen's Dept. of Environmental Health, four worksheets.
- Heede, Richard** (2007) *Aspen Greenhouse Gas Emissions 1990-2100: Four Scenarios*, commissioned by City of Aspen's Canary Initiative, Jan07, 4 pp., plus four spreadsheets.
- Heede, Richard** (2006) *Traffic Scenarios for the Entrance to Aspen and Commuting to 2030*, commissioned by City of Aspen's Canary Initiative, Nov06, 8 pp., plus eight spreadsheets.
- Heede, Richard** (2006) *LNG Supply Chain Greenhouse Gas Emissions for the Cabrillo Deepwater Port: Natural Gas from Australia to California*, commissioned by California Coastal Protection Network & Environmental Defense Center (Santa Barbara), May06, 28 pp., plus spreadsheets (4pp) and notes (16 pp).
- Heede, Richard** (2006) *Aspen Greenhouse Gas Emissions 2004*, for the City of Aspen's Canary Initiative, commissioned by the City of Aspen, Climate Mitigation Services, 96 pp, 14 spreadsheets.
- Atlee, Jennifer** (2006) *Energy and Sustainable Development in the USA*, Helio International, Paris, 35 pp., www.heliointernational.org/reports/2006.cfm. Heede served as reviewer and report coordinator for both the USA and Mexico reports.
- Heede, Richard** (2005) "Energy and Carbon Savings in a typical Las Vegas Hotel: lighting and shower upgrades," spreadsheet calculations of total annual savings, commissioned by Pineapple Hospitality & Laurie David's "Earth to America" television special, Turner Broadcasting, Nov05.
- Heede, Richard** (2005) *Supplemental Declaration on behalf of Friends of the Earth v Mosbacher et al, United District Court, San Francisco Division*, for Shems Dunkiel Kassel & Saunders, Burlington, 55 pp.
- Heede, Richard** (2004) *Declaration and greenhouse gas emissions estimate of the Export-Import Bank of the United States and the Overseas Private Investment Corporation energy portfolios 1990-2004*, for Shems Dunkiel Kassel & Saunders PLLC, Burlington, Jan05, 76 pp.
- Heede, Richard** (2004) *Black Hydrogen: An Assessment of the U.S. Department of Energy's Plans for Nuclear Hydrogen Production*, commissioned by Greenpeace USA, Climate Mitigation Services, 64 pp.
- Heede, Richard, David Houghton, & August Hasz** (2004) *Energy and Climate Plan for the Town of Telluride, Colorado: Audit and Policy Recommendations*, June 2004, Climate Mitigation Services and Resource Engineering Group, Snowmass, CO. 46 pp.
- Heede, Richard** (2003) *ExxonMobil Corporation: Emissions Inventory 1882-2002: Spreadsheet*, Climate Mitigation Services, commissioned by Friends of the Earth Trust Ltd, London; 13 worksheets, 72 pp, 5 charts; www.foe.co.uk/campaigns/climate/resource/exxonmobil_climate_footprint.html
- Heede, Richard** (2003) *ExxonMobil Corporation: Emissions Inventory 1882-2002: Methods & Results*, Climate Mitigation Services, Snowmass, Colorado, commissioned by Friends of the Earth Trust Limited, London; 30 pp., 4 charts, references.
- Heede, Richard** (submitted) "The Road Less Traveled (Still): Oberlin College: Climate Neutral by 2020," *International Journal of Sustainability in Higher Education*, 10 pp.
- Heede, Richard** (2002) "Household Solutions Brief," *Cool Citizens: Everyday Solutions to Climate Change*, Brief #1, 18 pp. Rocky Mountain Institute, www.rmi.org/sitepages/pid173.php
- Heede, Richard** (2002) "Household Solutions: Residential Carbon Dioxide Emissions Profile and Calculations of Reduction Measures," *Cool Citizens: Everyday Solutions to Climate Change*, 42 pp. Rocky Mountain Institute, Snowmass. www.rmi.org/sitepages/pid173.php.
- Heede, Richard** (2002) "Emissions of U.S. Greenhouse Gases per Household and per Capita, 1998," *Cool Citizens: Everyday Solutions to Climate Change*, Excel spreadsheet with notes. RMI, Snowmass, CO. www.rmi.org/sitepages/pid173.php.
- Heede, Richard, & Joel Swisher** (2002) *Oberlin College: Climate Neutral by 2020*, for David Orr (chair of Oberlin's Dept. of Environmental Studies), and funded by Educational Foundation of America. Rocky Mountain Institute, Snowmass, CO. Main Report, 118 pp. Appendices, 286 pp.
- Heede, Richard** (2001) "The Road Less Traveled (Still): Oberlin College: Climate Neutral by 2020," Greening of the Campus Conference, Ball State University, Indiana, *Proceedings*, 10 pp.
- Heede, Richard** (2000) *Measuring Energy Sustainability: Evaluating Your Country's Energy Development: A Manual for Users of Helio's Indicators*, Global Energy Observatory, Helio International, Paris, 136 pp; posted at www.heliointernational.org.

- Heede, Richard** (1999) *Household Opportunities to Cool Global Warming*, Affordable Comfort Conference, Chicago, April 1999.
- Heede, Richard** (1998) *Maui Electric Company's Proposed 232 MW Waena Generating Station*, invited testimony by Maui Tomorrow Citizens' Coalition, Rocky Mountain Institute. Submitted to the State of Hawaii Land Use Commission and the County of Maui Planning Commission.
- Heede, Richard** (1998) *Stories of Personal Environmental Opportunities*, commissioned by Center for a New American Dream, Washington, DC, October, 15 pp.
- Heede, Richard** (1998) *U.S. Energy and Carbon Dioxide Savings from Water Heater Energy Factor Improvement*, commissioned paper, Snowmass, CO, April, 8 pp.
- Heede, Richard** (1997) *Grand Wailea Resort (Maui): Environmental Factors*, Rocky Mountain Institute.
- Heede, Richard** (1997) *Summary of Carbon Emissions by Major Fossil Fuel Producers, 1992-1996*, commissioned by Greenpeace (Amsterdam), 10 pp.
- Heede, Richard, & L. Hunter Lovins** (1996) *Environmentally Sustainable Energy Choices*, Renew America, Washington, DC, 6 pp.
- Heede, Richard** (1995) *Homemade Money: How to Save Energy and Dollars in Your Home*, Brick House Publishing Company, Amherst, NH, 76 illustrations, 276 pp.
- Cureton, Maureen, Richard Heede, & David Reed** (1995) *The Energy Directory Kit*, Rocky Mountain Institute, Snowmass, CO.
- Heede, Richard** (1994) "The Environmental Kitchen," *Harrowsmith Canada*, Aug94, pp. 60-64.
- Yoon, Daniel, & Richard Heede** (1994) "Keeping Warm and Staying Cool," *Garbage*, February, pp. 52-57.
- Heede, Richard, & Linda Baynham** (1993) *The Energy Directory: A Guide to Energy-Efficient Goods and Services in the Roaring Fork Valley*, Rocky Mountain Institute, Snowmass, 80 pp.
- Heede, Richard** (1993) "Energy Policy Recommendations for the Clinton Administration," *Environmental Action Foundation Newsletter*, Washington, DC.
- Lovins, L. Hunter, Amory B. Lovins, & Richard Heede** (1992) "Energy Policy," in *Changing America: Blueprints for the New Administration*, Mark Green, editor, Citizens Transition Project, pp. 671-686.
- Heede, Richard, & Robert Bishop** (1991) "Corporate Wealth through Waste," *Sierra mag*, July, pp. 16-18.
- Heede, Richard** (1991) "Waste Not, Want Not," *Institutional Investor*, p. 12.
- Heede, Richard** (1991) "The NES Strikes a Dry Hole," *Natural Resources & Environment*, special issue on the National Energy Strategy, volume 6(2), Fall, pp. 13-17+.
- Lovins, Amory B., & Richard Heede** (1991) *Electricity-Saving Office Equipment*, Competitek, RMI, 185 pp.
- Heede, Richard, & David Houghton** (1990) "Assembling a New National Energy Policy," *Building Economic Alternatives*, Winter 1990, pp. 10-17.
- Heede, Richard** (1990) "Tax Changes for Environmental Improvement," Testimony submitted to the Ways and Means Committee, U.S. House of Representatives, 6 March 1990, 5 pp.
- Heede, Richard** (1989) "Saving Carbon Dioxide through Home Energy Efficiency," RMI, 9 pp.
- Heede, Richard** (1989) "Carbon Dioxide Emissions per Kilowatthour Consumed: Briefing Sheet for Analysts," Rocky Mountain Institute, Snowmass, CO, 11 pp.
- Heede, Richard** (1987) "Better Ways to Reduce Oil Imports," Testimony submitted to the Subcommittee on Energy and Agricultural Taxation, Committee on Finance, U.S. Senate, *Hearing on Tax Incentives to Increase Energy Security*, 5 June 1987, 6 pp.
- Heede, Richard** (1986) "Energy Subsidies," *Sierra magazine*.
- Heede, Richard, & Amory B. Lovins** (1985) "Hiding the True Costs of Energy," *Wall Street Journal*, 17 September 1985, p. 28.
- Heede, Richard, Richard E. Morgan, & Scott Ridley** (1985) *The Hidden Costs of Energy*, Center for Renewable Resources, Washington, DC, 28 pp.
- Heede, Richard** (1985) "Federal Energy Subsidies: A Look at the 'Bang per Buck'" *Alternative Sources of Energy*, p. 4.
- Heede, Richard, & Seth Zuckerman** (1985) "U.S. Pays a Heavy Cost for Energy Investments," *Los Angeles Times*, 22 December 1985, p. V(3).
- Heede, Richard** (1985) *A Preliminary Assessment of Federal Energy Subsidies in FY 1984*, Rocky Mountain Institute, Testimony submitted to the Subcommittee on Energy Conservation and Power, Committee on Energy Commerce, United States House of Representatives, 20 June 1985, 28 pp.
- Heede, Richard** (1983) *A World Geography of Recoverable Carbon Resources in the Context of Possible Climatic Change*; National Center for Atmospheric Research, Boulder, Colorado, UCAR & University of Colorado, Cooperative Thesis #72, 140 pp, plus 5 fold-out maps.